BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Estimate for Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura Sub Division

			Estimate Cost Rs.						7500000.00
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in **Ordinary Soil** soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH chapter 3. No. 141/ Item No. 19.1/ PWD SR 2016-17	Cum							
	Desilting of Drains								
	Bellahalli Colony		2	55.00	0.45	0.30	14.85		
	For Road Surface								
	Bellahalli Colony Roads		1	150.00	4.00	0.10	60.00		
	Palanahalli		1	180.00	4.50	0.10	81.00		
	Cross Road		1	139.00	4.50	0.10	62.55		
	For Flaging Course								
	Bellahalli Colony		2X2	55.00	0.25	0.30	16.50		
	For New Salb Drain Ambedakarnagara 3rd Cross Balance Portion		2	260.00	0.75	0.75	292.50		
	MK Green Chilli Hotel Road STS Circle		2	150.00	0.75	0.75	168.75		
	Culverts		8	6.20	2.10	1.20	124.99		
							821.14	86.92	**71374.00**
	Basic Rate	82.00							
	Area Weightage @ 6%	4.92							
	Total	**86.92**							
2	Removing B.S Slab of Drain and stacking Page No. 25/ Item No. 5.32/ PWD SR 2016-17	Sqm							
	Bellahalli Colony		2	55.00	1.65		181.50		
							181.50		
	Deduct 35% Missing Slabs						63.53		
							117.98	65.72	**7753.00**
	Basic Rate	62.00							
	Area Weightage @ 6%	3.72							
	Total	**65.72**							
3	Refixing stone slabs of drains and pointing in C.M (1:3) Page No. 25/ Item No. 5.33/ PWD SR 2016-17	Sqm							
			Qty Vide Item No.3				117.98		
							117.98	80.56	9504.00
	Basic Rate	76.00							
	Area Weightage @ 6%	4.56							
	Total	**80.56**							
4	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete -do- 7.5 cms thick Page No. 28/ Item No. 5.31.1/ PWD SR 2016-17	**Sqm**							
	Missing Slabs		Missing Qty				63.53		
	For New Salb drain Ambedakarnagara 3rd Cross Balance Portion		2	260.00	1.65		858.00		
							921.53	665.68	**613441.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic Rate	628.00							
	Area Weightage @ 6%	37.68							
	Total	**665.68**							
5	KSRB-4-1.3 : Providing and laying in position plain cement concrete of mix M 1:4:8 withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.3/ PWD SR 2016-17	**Cum**							
	For Culverts		8	6.20	2.10	0.15	16.07		
	For Flaging Course								
	Bellahalli Colony		2X2	55.00	0.25	0.15	8.25		
	For Concrete Raod								
	Bellahalli Colony Roads		1	150.00	4.00	0.15	90.00		
	Palanahalli		1	180.00	4.50	0.15	121.50		
	Cross Road		1	139.00	4.50	0.15	93.83		
							329.65	5159.02	**1700655.00**
	Basic Rate	4867.00							
	Area Weightage @ 6%	292.02							
	Total	**5159.02**							
6	KSRB 5.2.3 Providing and constructing granite / trap / basalt Size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 23/ Item No. 5.6/ PWD SR 2016-17	cum							
	Culverts		8X2	6.20	0.60	0.50	14.88		
							14.88	4438.22	**66041.00**
	Basic Rate	4187.00							
	Area Weightage @ 6%	251.22							
	Total	**4438.22**							
7	KSRB 5.3-3 Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 23/ Item No. 5.9/ PWD SR 2016-17	**Sqm**							
	Culverts		8X2	6.20	0.50	0.45	11.16		
							11.16	**5305.30**	**59207.00**
	Basic Rate	5005.00							
	Area Weightage @ 6%	300.30							
	Total	**5305.30**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
8	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 16/ Item No. 4.34/ PWD SR 2016-17	**Sqm**							
	For Culverts		8	6.20	0.60		29.76		
	For Sides		8X2	6.20	0.23		22.82		
			8X2	1.65	0.23		6.07		
							58.65	**271.36**	**15915.00**
	Basic Rate	256.00							
	Area Weightage @ 6%	15.36							
	Total	**271.36**							
9	KSRB 4-1.7 : : Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2/P No. 13/ Item No. 4.7/ PWD SR 2016-17	**cum**							
	Culverts		8X2	6.20	0.50	0.15	7.44		
	Vent Bed		8	6.20	0.60	0.15	4.46		
	For Flaging Course								
	Bellahalli Colony		2X2	55.00	0.20	0.10	4.40		
	Drain Vent Concrete								
	Bellahalli Colony		2	55.00	0.40	0.10	4.40		
							20.70	5598.92	**115920.00**
	Basic Rate	5282.00							
	Area Weightage @ 6%	316.92							
	Total	**5598.92**							
10	KSRB 15.1.3: Providing FLush pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 109/ Item No. 15.1/ PWD SR 2016-17	Sqm							
	Culverts		8X2	6.20		0.50	49.60		
							49.60	102.82	**5100.00**
	Basic Rate	97.00							
	Area Weightage @ 6%	5.82							
	Total	**102.82**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
11	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2016-17	Cum							
	For Cuvlerts		8	6.20	1.80	0.23	20.53		
							20.53	6371.66	**130838.00**
	Basic Rate	6011.00							
	Area Weightage @ 6%	360.66							
	Total	**6371.66**							
12	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 17/ Item No. 4.46.2/ PWD SR	Qtl							
	0.90Ton/Cum		0.090	20.53			**1.85**	64243.42	**118728.00**
	Basic Rate	60607.00							
	Area Weightage @ 6%	3636.42							
	Total	**64243.42**							
13	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Page No. 24/ Item No. 5.27/ PWD SR 2016-17	Sqm							
	For Flaging Course								
	Bellahalli Colony		2X2	55.00		0.40	88.00		
							88.00	993.22	**87403.00**
	Basic Rate	937.00							
	Area Weightage @ 6%	56.22							
	Total	**993.22**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
14	Precast slab 20mm and down size for slab (including steel reinforcement) including centring and shutterng machine mixed concrete laid in layers not exceeding 15cms thick well compacted cost of all materials labour HOM of machineries curing complete as per specifications c.c 1:1.5:3 Including all cost of Matirial (DATA RATE ENCLOSED) 10cm thick RCC pre cast slab	Sqm							
	Bellahalli Colony		2	57.00	0.90		102.60		
	For New Salb Drain Ambedakarnagara 3rd Cross Balance Portion		2	260.00	0.90		468.00		
							570.60	1856.67	**1059416.00**
	Data Rate	**1856.67**							
15	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 for raft foundation, column footing, main and secondary beams. Page No. 18/ Item No. 4.48/ PWD SR 2016-17	Cum							
	Bellahalli Colony Roads		1	150.00	4.00	0.10	60.00		
	Palanahalli		1	180.00	4.50	0.10	81.00		
	Cross Road		1	139.00	4.50	0.10	62.55		
							203.55	6231.74	**1268471.00**
	Basic Rate	5879.00							
	Area Weightage @ 6%	352.74							
	Total	**6231.74**							
16	Vaccum De- writing with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift No. 171/ Item No. 22.7/ PWD SR 2016-17	Sqm							
	Bellahalli Colony Roads		1	150.00	4.00		600.00		
	Palanahalli		1	180.00	4.50		810.00		
	Cross Road		1	139.00	4.50		625.50		
							2035.50	95.40	**194187.00**
	Basic Rate	90.00							
	Area Weightage @ 6%	5.40							
	Total	**95.40**							
17	Providing groove cutting for Concrete pavement width of 5mm to 10mm and depth 80mm- 100mm including cost of cutting machine, generator & HOM of machinery, including cost of blade,coolant etc., including cleaning of groove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications.(Page No 178., I.No.22.8.1 of PWD S.R 2016-17).	**Rmtr**							
	Bellahalli Colony Roads		50	4.00			200.00		
	Palanahalli		60	4.50			270.00		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Cross Road		44	4.50			198.00		
							668.00	121.90	**81429.00**
	Basic Rate	115.00							
	Area Weightage @ 6%	6.90							
	Total	**121.90**							
18	KSRRB M300-53: construction of **embankment** with approved material gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) MORTH specification Page No. 305.4.3, No. 148/ Item No. 19.60/ PWD SR 2016-17	**Cum**							
	Ambedakarnagara 3rd Cross Balance Portion		1	260.00	6.00	0.45	702.00		
	MK Green Chilli Hotel Road STS Circle		1	150.00	5.00	0.30	225.00		
							927.00	320.12	**296751.00**
	Basic Rate	302.00							
	Area Weightage @ 6%	18.12							
	Total	**320.12**							
19	KSRRB M400-14.2: Providing, laying, spreading and compacting stone aggregates of specific size to **water bound macadam** specifications. Including spreading in uniform thickness, hand packing, rolling with 3-whelled steel / vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening / binding materials to fill up the interstices of coarse aggregates, watering and compacting to the required density complete as per specifications. B by mechanical means, MORTH specification No. 404, Crushable type such as moorum or gravel for **grading II** , No. 157/ Item No. 20.14.1/ PWD SR 2016-17	**Cum**							
	Ambedakarnagara 3rd Cross Balance Portion		1	260.00	6.00	0.10	156.00		
	MK Green Chilli Hotel Road STS Circle		1	150.00	5.00	0.10	75.00		
							231.00	1877.26	**433647.00**
	Basic Rate	1771.00							
	Area Weightage @ 6%	106.26							
	Total	**1877.26**							
20	KSRRB M400-14.2: Providing, laying, spreading and compacting stone aggregates of specific size to water bound macadam specifications. Including spreading in uniform thickness, hand packing, rolling with 3-whelled steel / vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening / binding materials to fill up the interstices of coarse aggregates, watering and compacting to the required density complete as per specifications. B by mechanical means, MORTH specification No. 404, Crushable type such as moorum or gravel for **grading III**, No. 157/ Item No. 20.14.3/ PWD SR 2016-17	**Cum**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Ambedakarnagara 3rd Cross Balance Portion		1	260.00	6.00	0.08	124.80		
	MK Green Chilli Hotel Road STS Circle		1	150.00	5.00	0.08	60.00		
							184.80	1948.28	**360042.00**
	Basic Rate	1838.00							
	Area Weightage @ 6%	110.28							
	Total	**1948.28**							
21	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123,	Cum							
			Qty. Vide Item No. 1				**821.14**		
							821.14	73.12	**60042.00**
	Basic Rate Lead Charges Upto 2.00 Kms	5.12							
	PWD SR 2015-16 (P.118/I.17.1) For loading	68.00							
	Total	**73.12**							
							Grand Total		**6755864.00**
22	For 10% KRIDL Charges								**675586.00**
23	For 1% Labour Cess								**67559.00**
24	Miscesallaneous Charges	L/S							**991.00**
									7500000.00

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2016-17
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 05(Jakkur)

Executive Engineer
Byatarayanapura Division
20/09

Assistant Executive Engineer
Byatarayanapura Sub Division

ADMINISTRATIVE APPROVAL

Accorded For Rs. Seventy Five lakhs only

Head of A/c P-1878

Div. Ref. No. 35/18-19 Date 15/10/18

AE 15/10

EE(BTP) 15/10

Technical Sanction
Accorded For Rs.75.00 lakhs only
Head of A/C P-1878
CER NO :25/98/1819 Dt:15.10.2018

TA

CE (YNK)